5. REFERENCES

[1] M. Liljas, “80 Years with Duplex Steels, A Historic Review and Prospects for the Future”, Outokumpu Stainless AB, Sweden.

[2] Dr. J. Charles, “Past, Present and Future of the Duplex Stainless Steels”, Arcelor Mittal Stainless, France.

[3] Iris Alvarez-Armas (2008), “Duplex Stainles Steels: Brief History and Some Recent Alloys”, Recent Patents on Mechanical Engineering, Vol. 1, Pg. 51 – 57.

[4] Zou De-ning, Han Ying, Zhang Wei and Fan Guang-wei (2010), “Phase Transformation and Its Effects on Mechanical Properties and Pitting Corrosion Resistance of 2205 Duplex Stainless Steel”, Journal of Iron and Steel Research, International, Vol. 17 (11), Pg. 67 – 72.

[5] Lin Gang, Zhang Zhi-xia, Song Hong-wei, Tong Jun and Zhou Can-dong (2008), “Investigation of the Hot Plasticity of Duplex Stainless Steel”, Journal of Iron and Steel Research, International, Vol. 15 (6), Pg. 83 – 86.

[6] K. N. Adhe, V. Kain, K. Madangopal and H. S. Gadiyar (1996), “Influence of Sigma-Phase Formation on the Localized Corrosion Behavior of a Duplex Stainless Steel”, Journal of Materials Engineering and Performance, ASM International, Vol. 5 (4), Pg. 500 – 506.

[7] K. Fan, F. Liu, Y. Z. Ma, G. C. Yang and Y. H. Zhou (2010), “Modeling of σ-Phase Precipitation in a 2205 Duplex Stainless Steel using an Analytical Soft Impingement Treatment”, Materials Science and Engineering A, Vol. 527, Pg. 4550 – 4553.

[8] Dong Chaofang, Luo Hong, Xiao Kui, Sun Ting, Liu Qian and Li Xiagang (2011), “Effect of Temperature and Cl Concentrattion on Pitting of 2205 Duplex Stainless Steel”, Journal of Wuhan University of Technology-Materials Science, Vol. Aug., Pg. 641 – 647.

[9] Joanna Michalska and Maria Sozanska (2006), “Qualitative and Quantitative Analysis of σ and χ Phases in 2205 Duplex Stainless Steel”, Materials Characterization, Vol. 56, Pg. 355 – 362.

[10] Zhang Wei, Jiang Laizhu, Hu Jincheng and Song Hongmei (2009), “Effect of Ageing on Precipitation and Impact Energy of 2101 Economical Duplex Stainless Steel”, Materials Characterization, Vol. 60, Pg. 50 – 55.

[11] Liu Xiong, Ding Xiu-ping, He Yan-lin and Li Lin (2010), “Experimental Study and Kinetic Calculation on Migration of γ/α Interface Boundary During High Temperature

Aging for 2205 Duplex Stainless Steel", Journal of Iron and Steel Research, International, Vol. 17 (8), Pg. 45 – 49.

[12] Yan-Lin He, Na-Qiong Zhu, Xiao-Gang Lu and Lin Li (2010), "Experimental and Computational Study on Microstructural Evolution in 2205 Duplex Stainless Steel during High Temperature Aging", Materials Science and Engineering A, Vol. 528, Pg. 721 – 729.

[13] S. K. Ghosh and S. Mondal (2008), "High Temperature Ageing Behavior of a Duplex Stainless Steel", Materials Characterization, Vol. 59, Pg. 1776 – 1783.

[14] D. M. Escriba, E. Materna-Morris, R. L. Plaut and A. F. Padilha (2009), "Chi-Phase Precipitation in a Duplex Stainless Steel", Materials Characterization, Vol. 60, Pg. 1214 – 1219.

[15] Henrick Sieurin and Rolf Sandstrom (2007), "Sigma Phase Precipitation in Duplex Stainless Steel 2205", Materials Science and Engineering A, Vol. 444, Pg. 271 – 276.

[16] Kuang Liang Weng, Tung Hung Chen an Jer Ren Yang (2003), "The High-Temperature and Low-Temperature Aging Embrittlement in a 2205 Duplex Stainless Steel", Bulletin of the College of Engineering, N.T.U., Vol. 89, Pg. 45 – 61.

[17] F. Iacoviello, F. Casari and S. Gialanella (2005), "Effect of "475^{o}C Embrittlement" on Duplex Stainless Steels Localized Corrosion Resistance", Corrosion Science, Vol. 47, Pg. 909 – 922.

[18] J. D. Kordatos, G. Fourlaris and G. Papadimitriou (1999), "Structural Evolution of a 2205 Duplex Stainless Steel between 500^{o}C and 800^{o}C and Pitting Corrosion Resistance", Materials Science Forum, Vols. 318 – 320, Pg. 817 – 822.

[19] K. L. Weng, H. R. Chen and J. R. Yang (2004), "The Low-Temperature Aging Embrittlement in a 2205 Duplex Stainless Steel", Materials Science and Engineering A, Vol. 379, Pg. 119 – 132.

[20] O. A. Hilders, L. Saenz, M. Ramos and N. D. Pena (1999), "Effect of 475^{o}C Embrittlement on Fractal Behavior and Tensile Properties of a Duplex Stainless Steel", Journal of Materials Engineering and Performance, Vol. 8 (1), Pg. 87 – 90.

[21] A. J. Ramirez, J. C. Lippold and S. D. Brandi (2003), "The Relationship between Chromium Nitride and Secondary Austenite Precipitation in Duplex Stainless Steels", Metallurgical and Materials Transactions A, Vol. 34, Pg. 1575 – 1597.

[22] P. K. Chiu, K. L. Weng, S. H. Wang, J. R. Yang, Y. S. Huang and Jasoyn Fang (2005), "Low-cycle Fatigue–induced Martensitic Transformation in SAF 2205 Duplex Stainless Steel", Materials Science and Engineering A, Vol. 398, Pg. 349 – 359.

[23] Guangwei Fan, Jie Liu, Peide Han, Guanjun Qiao and Jianfeng Yang (2009), "Effect of Warm Processing Parameters on the Precipitation of γ'-Phase in 2205 Duplex Stainless Steels", Materials Science Forum, Vols. 620 – 622, Pg. 165 – 168.

[24] T. H. Chen, K. L. Weng and J. R. Yang (2002), "The Effect of High-Temperature exposure on the Microstructural Stability and Toughness Property in a 2205 Duplex Stainless Steel", Materials Science and Engineering A, Vol. 338, Pg. 259 – 270.

[25] T. Borvik, H. Lange, L. A. Marken, M. Langseth, O. S. Hopperstad, M. Aursand and G. Rorvik (2010), "Pipe Fittings in Duplex Stainless Steel with Deviation in Quality caused by Sigma Phase Precipitation", Materials Science and Engineering A, Vol. 527, Pg. 6945 – 6955.

[26] J. K. Sahu, U. Krupp, R. N. Ghosh and H.-J. Christ (2009), "Effect of 475^{o}C Embrittlement on the Mechanical Properties of Duplex Stainless Steel", Materials Science and Engineering A, Vol. 508, Pg. 1 – 14.

[27] Horng-Yih Liou, Yeong-Tsuen Pan, Rong-Iuan Hsleh and Wen-Ta Tsai (2001), "Effects of Alloying Elements on the Mechanical Properties and Corrosion Behaviors of 2205 Duplex Stianless Steels", Journal of Materials Engineering and Performance, Vol. 10 (2), Pg. 231 – 241.

[28] G. Atxaga an A. M. Irisarri (2009), "Study of the Failure of a Duplex Stainless Steel Valve", Engineering Failure Analysis, Vol. 16, Pg. 1412 – 1419.

[29] J. H. Potgieter, P. A. Olubambi, L. Cornish, C. N. Machio and El-Sayed M. Sherif (2008), "Influence of Nickel additions on the Corrosion Behavior of Low Nitrogen 22% Cr series Duplex Stainless Steels", Corrosion Science, Vol. 50, Pg. 2572 – 2579.

[30] C. Y. Chen, H. W. Yen and J. R. Yang (2007), "Sympathetic nucleation of Austenite in a Fe – 22Cr – 5Ni Duplex Stainless Steel", Scripta Materialia, Vol. 56, Pg. 673 – 676.

[31] A. Momeni and K. Dehghani (2010), "Effect of Hot Working on Secondary Phase Formation in 2205 Duplex Stainless Steel", Journal of Materials Science and Technology, Vol. 26 (9), Pg. 851 – 857.

[32] Dominik Bruch (2007), "Investigations on Microstructure, Mechanical Properties and Corrosion Resistance of Large Thickness Duplex Stainless Steel Forgings", Stainless Steel World Conference, Maastricht, the Netherlands.

[33] Darja Steiner Petrovic, Miran Pirnat, Grega Klancnik, Primoz Mrvar and Jozef Medved (2012), "The Effect of Cooling Rate on the Solidification and Microstructure Evolution in Duplex Stainless Steel", J Therm Anal Calorim, Vol. 31st March.

[34] Lei Chen, Xiaocong Ma, Xiao VLiu and Longmei Wang (2011), "Processing map for Hot Working characteristics of a Wrought 2205 Duplex Stainless Steel", Materials and Design, Vol. 32, Pg. 1292 – 1297.

[35] A. Momeni, K. Dehghani and X. X. Zhang (2012), "Mechanical and Microstructural Analysis of 2205 Duplex Stainless Steel under Hot Working Condition", Journal of Materials Science, Vol. 47, Pg. 2966 – 2974.

[36] K Vijayalakshmi, V. Muthupandi and R. Jayachitra (2011), "Influence of Heat Treatment on the Microstructure, Ultrasonic Attenuation and Hardness of SAF 2205 Duplex Stainless Steel", Materials Science and Engineering A, Vol. 529, Pg. 447 – 451.

[37] Noemi Ortiz Lara, Alberto Ruiz, Carlos Rubio, Ricardo R. Ambriz and Ariosto Medina (2011), "Nondestructive assessing of the Aging Effects in 2205 Duplex Stainless Steel using Thermoelectric Power", NDT&E International, Vol. 44, Pg. 463 – 468.

[38] H. Farnoush, A. Momeni, K. Dehghani, J. Aghazadeh Mohandesi and H. Keshmiri (2010), "Hot Deformation characteristics of 2205 Duplex Stainless Steel based on the Behavior of Constituent Phases", Materials an Design, Vol. 31, Pg. 220 – 226.

[39] G. Fargas, M. Anglada and A. Mateo (2009), "Effect of the Annealing Temperature on the Mechanical Properties, Formability and Corrosion Resistance of Hot-Rolled Duplex Stainless Steel", Journal of Materials Processing Technology, Vol. 209, Pg. 1770 – 1782.

[40] J. K. Sahu, R. N. Ghosh and H. J. Christ (2009), "Low Cycle Fatigue Behavior of Duplex Stainless Steel: Influence of Isothermal Aging Treatment", Fatigue and Fracture of Engineering Materials and Structures, Vol. 33, Pg. 77 – 86.

[41] A. Dehghan-Manshadi and P. D. Hodgson (2008), "Effect of δ-Ferrite co-existence on Hot Deformation and Recrystallization of Austenite", Journal of Materials Science, Vol. 43, Pg. 6272 – 6277.

[42] Marcelo Martins, Sergio Mazzer Rossitti, Marcio Ritoni and Luiz Carlos Casteletti (2006), "Effect of Stress Relief at 350°C and 550°C on the Impact Properties of Duplex Stainless Steels", Materials Characterization.

[43] Y. F. Al-obaid (1995), “The Effect of Shot Peening on Stress Corrosion Cracking Behaviour of 2205-Duplex Stainless Steel”, Engineering Fracture Mechanics, Vol. 51(1), Pg. 19 – 25.

[44] Horng-Yih Liou, Rong-Iuan Hsieh and Wen-Ta Tsai (2002), “Mircrostructure and Stress Corrosion Cracking in simulated Heat-affected Zones of Duplex Stainless Steels”, Corrosion Science, Vol. 44, Pg. 2841 – 2856.

[45] S. Bugat, J. Besson, A.-F. Gourgues, F. N’Guyen and A. Pineau (2001), “Microstructure and Damage Initiation in Duplex Stainless Steels”, Materials Science and Engineering A, Vol. 317, Pg. 32 – 36.

[46] F. J. Torres, W. Panyayong, W. Rogers, D. Velasquez-Plata, Y. Oshida and B. K. Moore (1998), “Corrosion Behavior of Sensitized Duplex Stainless Steel”, Vol. 8, Pg. 25 – 36.

[47] N. Ebrahimi, M. Momeni, M. H. Moayed and A. Davoodi (2011), “Correlation between Critical Pitting Temperature and Degree of Sensitization on alloy 2205 Duplex Stainless Steel”, Corrosion Science, Vol. 53, Pg. 637 – 644.

[48] K. Ravindranath and S. N. Malhotra (1995), “The Influence of Aging on the Intergranular Corrosion of 22 Chromium-5 Nickel Duplex Stainless Steel”, Corrosion Science, Vol. 37(1), Pg. 121 – 132.

[49] Laizhu Jiang, Jukka Paro, Hannu Hanninen, Veijo Kauppinen and Risto Oraskari (1996), “Comparison of Grindability of HIPped Austenitic 316L, Duplex 2205 and Super Duplex 2507 and as-cast 304 Stainless Steels using Alumina Wheels”, Journal of Materials Processing Technology, Vol. 62, Pg. 1 – 9.